

Recovery Plan Action Status

Plan Name: Recovery Plan for the California Red-legged Frog (*Rana aurora draytonii*)

Plan Status: Final

Plan Date: 28-May-02

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-8600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
California red-legged frog (<i>Rana draytonii</i>)	1	1.1	Develop and implement a management and protection plan for Core Area #1 (Feather River).	Not Started			U.S. Fish and Wildlife Service, Lassen National Forest, Plumas National Forest	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.10	Develop and implement a management plan for Core Area #10 (Tributaries to Lake Berryessa)	Not Started			Quail Ridge Wilderness Conservancy, University of California, Natural Reserve System, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.11	Develop and implement a watershed management and protection plan for Core Area #11 (Upper Sonoma Creek)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.12	Develop and implement a watershed management and protection plan for Core Area #12 (Petaluma Creek-Sonoma Creek)	Not Started			Sonoma Land Trust, U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.13	Develop and implement a watershed management and protection plan for Core Area #13 (Point Reyes Peninsula)	Not Started			California Department of Parks and Recreation, Marin Municipal Water District, National Park Service, U.S. Fish and Wildlife Service	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	1.14	Develop and implement a watershed management and protection plan for Core Area #14 (Belvedere Lagoon)	Not Started			U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.15	Develop and implement a management and protection plan for Core Area #15 (Fagan- Jameson Canyon-Lower Napa River)	Not Started			City of American Canyon, California, Land Trust of Napa County, U.S. Fish and Wildlife Service	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.16	Develop and implement a management and protection plan for Core Area #16 (East San Francisco Bay)	Not Started			California Department of Parks and Recreation, California Department of Water Resources, East Bay Regional Park District, Municipal Utility Districts, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Lawrence Livermore National Laboratory, California Department of Fish and Game, The Nature Conservancy, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.17	Develop and implement a watershed management and protection plan for Core Area #17 (Santa Clara Valley)	Not Started			Multiple public land agencies	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.18	Develop and implement a management and protection plan for Core Area #18 (South San Francisco Bay)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	1.19	Develop and implement a management and protection plan for Core Area #19 (Watsonville Slough-Elkhorn Slough)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, Elkhorn Slough National Estuarine Research Institute, Private landowners	Management: Planning	Contract	Total Costs to be determined; [old unit was Salinas River-Pajaro River]
California red-legged frog (<i>Rana draytonii</i>)	1	1.2	Develop and implement a watershed management and protection plan for Core Area #2 (Yuba River-South Fork Feather)	Not Started			U.S. Fish and Wildlife Service, Plumas National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.20	Develop and implement a management and protection plan for Core Area #20 (Carmel River-Santa Lucia)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, Los Padres National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.21	Develop and implement a management and protection plan for Core Area #21 (Gabilan Range)	Not Started			U.S. Fish and Wildlife Service, Pinnacles National Monument, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.22	Develop and implement a management and protection plan for Core Area #22 (Estero Bay)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.23	Develop and implement a management and protection plan for Core Area #23 (Arroyo Grande)	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, Private landowners	Work type not yet selected	Labor type not yet selected	Total Costs to be determined

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California red-legged frog (Rana draytonii)	1	1.24	Develop and implement a management and protection plan for Core Area #24 (Santa Maria-Santa Ynez River)	Not Started			California Department of Parks and Recreation, Vandenberg Air Force Base, U.S. Fish and Wildlife Service, Los Padres National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.25	Develop a management and protection plan for Core Area #25 (Sisquoc River)	Not Started			U.S. Fish and Wildlife Service, Los Padres National Forest	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.26	Develop a watershed management and protection plan for Core Area #26 (Ventura River-Santa Clara River)	Not Started			U.S. Fish and Wildlife Service, Los Padres National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.27	Develop and implement a watershed management and protection plan for Core Area #27 (Santa Monica Bay-Ventura Coastal Streams)	Not Started			California Department of Parks and Recreation, Las Virgenes Institute, U.S. Fish and Wildlife Service, Santa Monica National Recreation Area, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.28	Develop a watershed management and protection plan for Core Area #28 (Estrella River)	Not Started			U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.29	Develop a watershed management and protection plan for Core Area #29 (San Gabriel Mountains)	Not Started			Angeles National Forest, U.S. Fish and Wildlife Service	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	1	1.3	Develop and implement a management and protection plan for Core Area #3 (Middle Fork American River)	Not Started			U.S. Fish and Wildlife Service, Eldorado National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	1.30	Develop and implement a management and plan for Core Area #30 (Mojave River)	Not Started			U.S. Fish and Wildlife Service, San Bernardino National Forest	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.31	Develop and implement a watershed management and protection plan for Core Area #31 (Santa Ana Mountain)	Not Started			U.S. Fish and Wildlife Service, Cleveland National Forest	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.32	Develop and implement a watershed management and protection plan for Core Area #32 (Santa Rosa Plateau)	Not Started			U.S. Fish and Wildlife Service, Cleveland National Forest, California Department of Fish and Game, The Nature Conservancy, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.33	Develop and implement a watershed management plan for Core Area #33 (San Luis Rey)	Not Started			Water agencies, Local Native American Tribe(s), U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.34	Develop and implement a watershed management plan for Core Area #34 (Sweetwater River)	Not Started			Water agencies, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.35	Develop and implement a watershed management and protection plan for Core Area #35 (Laguna Mountain)	Not Started			U.S. Fish and Wildlife Service, Cleveland National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	1.4	Develop and implement a management and protection plan for Core Area #4 (Cosumnes River-South Fork American River)	Not Started			California Department of Water Resources, American River Conservancy, El Dorado County, California, El Dorado Irrigation District, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Plumas National Forest, U.S. Forest Service, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.5	Develop and implement a management and protection plan for Core Area #5 (South Fork Calaveras River)	Not Started			U.S. Fish and Wildlife Service, Calaveras Ranger District, Stanislaus National Forest, Private landowners	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.6	Develop and implement a watershed management and protection plan for Core Area #6 (Tuolumne River)	Not Started			Yosemite National Park, U.S. Fish and Wildlife Service	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.7	Develop and implement a watershed management and protection plan for Core Area #7 (Piney Creek)	Not Started			U.S. Fish and Wildlife Service, Stanislaus National Forest	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.8	Develop and implement a watershed management and protection plan for Core Area #8 (Cottonwood Creek)	Not Started			Multiple public land agencies	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	1	1.9	Develop and implement a management and protection plan for Core Area #9 (Putah Creek-Cache Creek)	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Private landowners	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	10.1	Implement site assessments and restoration programs prior to reestablishment of the frog	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Los Angeles Zoo	Research: Habitat Status	Contract	Not started in ours.
California red-legged frog (<i>Rana draytonii</i>)	1	10.2	Conduct pilot rearing and reestablishment programs to test methods	Complete	FY 2000 - FY 2004	FY 2006	Las Virgenes Institute, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Los Angeles Zoo	Research: Reintroduction	Contract	
California red-legged frog (<i>Rana draytonii</i>)	1	10.3.1	Reestablish the frog in unoccupied core areas in Recovery unit # 1	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Management: Reintroduction	Contract	
California red-legged frog (<i>Rana draytonii</i>)	1	10.3.2	Reestablish the frog in unoccupied core areas in Recovery Unit # 2	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Management: Reintroduction	Contract	
California red-legged frog (<i>Rana draytonii</i>)	1	10.3.3	Reestablish the frog in unoccupied core areas in Recovery Unit # 8	Not Started			Las Virgenes Institute, U.S. Fish and Wildlife Service, Universities, Los Angeles Zoo	Management: Reintroduction	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.1	Develop a California red-legged frog survey and monitoring protocol	Complete	FY 2000 - FY 2004	FY 2005	Multiple public land agencies	Research: Population Surveys	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.10	Determine genetic and ecological relationships between <i>R. aurora draytonii</i> and <i>R.a.aurora</i>	Complete	FY 2000 - FY 2004	FY 2006	U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Genetics	Contract	

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California red-legged frog (<i>Rana draytonii</i>)	2	11.11	Determine whether distinct vertebrate population segments are identifiable for the California red-legged frog	Complete	FY 2000 - FY 2004	FY 2005	U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Demographic Studies	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.12	Conduct experimental manipulations of habitat to determine requirements for creation and restoration	Ongoing Current	FY 2000 - FY 2004		Las Virgenes Institute, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, The Nature Conservancy, Universities, Los Angeles Zoo	Research: Habitat Status	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.13.1	Determine the effects of livestock waste	Not Started			U.S. Geological Survey, Biological Resources Division, National Park Service, U.S. Fish and Wildlife Service	Research: Other Information	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.13.2	Determine grazing thresholds that ensure optimum habitat suitability	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Research: Other Information	Species Expert	
California red-legged frog (<i>Rana draytonii</i>)	2	11.14	Develop a protocol for a captive propagation program	Complete	FY 2000 - FY 2004	FY 2005	Las Virgenes Institute, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Los Angeles Zoo	Management: Propagation	Species Expert	
California red-legged frog (<i>Rana draytonii</i>)	3	11.15	Investigate the effects of eucalyptus on water quality	Not Started			East Bay Regional Park District, U.S. Geological Survey, Biological Resources Division, National Park Service, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area	Research: Other Information	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.1	Conduct surveys in the Tehachapi Mountains	Not Started			Multiple public land agencies	Research: Population Surveys	Contract	

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California red-legged frog (<i>Rana draytonii</i>)	2	11.2.2	Conduct surveys in the Santa Monica Mountains	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Research: Population Surveys	Contract	VFWO
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.3	Conduct surveys in the Sisquoc River Watershed	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Research: Population Surveys	Contract	VFWO
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.4	Conduct surveys in the upper Salinas River Drainage	Not Started			Multiple public land agencies	Research: Population Surveys	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.5	Conduct surveys in the Carrizo Plain vicinity	Not Started			Multiple public land agencies	Research: Population Surveys	Contract	661-391-6000 Amy Kuritsudo, BLM, Spivey Pond-Peggy Cranston
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.6	Conduct surveys on Bureau of Land Management lands	Ongoing Current	FY 2000 - FY 2004		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Research: Population Surveys	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.7	Conduct surveys within the historic and current range in the Sierra Nevada.	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Research: Population Surveys	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.2.8	Conduct surveys on all other lands identified as unsurveyed	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Research: Population Surveys	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.3.1	Develop a population monitoring program	Ongoing Current	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Management: Propagation	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.3.2	Conduct qualitative assessments of known populations	Not Started			California Department of Parks and Recreation, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.3.3	Conduct quantitative assessments of representative populations	Not Started			Multiple public land agencies	Management: Propagation	Contract	

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California red-legged frog (Rana draytonii)	2	11.3.4	Researchers should provide survey data to California Department of Fish and Game and FWS	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Management: Propagation	Contract	
California red-legged frog (Rana draytonii)	2	11.3.5	Utilize monitoring results to determine where recovery should be focused	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Propagation	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.1	Track status and recovery in Recovery Unit # 1	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.2	Track status and recovery in Recovery Unit # 2	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.3	Track status and recovery in Recovery Unit # 3	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.4	Track status and recovery in Recovery Unit # 4	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.5	Track status and recovery in Recovery Unit # 5	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.6	Track status and recovery in Recovery Unit # 6	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.7	Track status and recovery in Recovery Unit # 7	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.3.6.8	Track status and recovery in Recovery Unit # 8	Not Started			U.S. Fish and Wildlife Service	Management: General	Contract	
California red-legged frog (Rana draytonii)	2	11.4	Conduct population viability analyses for metapopulations	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Population Surveys	Contract	
California red-legged frog (Rana draytonii)	2	11.5	Research metapopulation dynamics	Not Started			U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Population Surveys	Contract	

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California red-legged frog (<i>Rana draytonii</i>)	2	11.6	Conduct research to better understand the ecology of this species including use of uplands, dispersal habits, and overland movements	Ongoing Current	FY 1995 - FY 1999		East Bay Regional Park District, Municipal Utility Districts, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities, Los Angeles Zoo	Research: General	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	11.7	Investigate contaminants issues	Ongoing Current	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Research: Environmental Contaminants	Contract	Total Costs to be determined
California red-legged frog (<i>Rana draytonii</i>)	2	11.8	Conduct research on the effects of mosquitofish and determine alternatives to mosquitofish use	Ongoing Current	FY 2000 - FY 2004		Mosquito vector control districts, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Predation	Contract	First studies done at UC Davis and published in scientific journals. Follow-up studies continue.
California red-legged frog (<i>Rana draytonii</i>)	2	11.9	Conduct research on the ecology of exotic species	Ongoing Current	FY 1995 - FY 1999		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, Universities	Research: Competition	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	12.1	Develop and implement outreach plans	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service	Other: Information and Education	Contract	
California red-legged frog (<i>Rana draytonii</i>)	2	12.2.1	Develop and implement participation plan for Recovery Unit # 1	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	2	12.2.2	Develop and implement participation plan for Recovery Unit # 2	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	2	12.2.3	Develop and implement participation plan for Recovery Unit # 3	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	

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California red-legged frog (Rana draytonii)	2	12.2.4	Develop and implement participation plan for Recovery Unit # 4	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	12.2.5	Develop and implement participation plan for Recovery Unit # 5	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	12.2.6	Develop and implement participation plan for Recovery Unit # 6	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	12.2.7	Develop and implement participation plan for Recovery Unit # 7	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	12.2.8	Develop and implement participation plan for Recovery Unit #8	Not Started			U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	12.3	Provide technical assistance to landowners	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Other: Information and Education	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	3	13.1	Monitor co-occurring, native species	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Management: Habitat Maintenance and Manipulation	Contract	
California red-legged frog (Rana draytonii)	3	13.2	Implement remediation, where appropriate	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Other: Regulations	Internal Technical Assistance	Total Costs to be determined
California red-legged frog (Rana draytonii)	2	2	Develop and implement management and protection plans for all Priority 2 watersheds	Not Started			Multiple public land agencies	Management: Planning	Contract	Total Costs to be determined
California red-legged frog (Rana draytonii)	3	3	Develop and implement a watershed management and protection plan for Priority 3 watersheds	Not Started			Multiple public land agencies	Management: Planning	Contract	Total Costs to be determined

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California red-legged frog (<i>Rana draytonii</i>)	1	4	Develop and implement conservation plans for the California red-legged frog for all State and regional parks and water/utility districts within the historic and current range	Ongoing Current	FY 2000 - FY 2004		California Department of Parks and Recreation, Municipal Utility Districts, Regional Parks, U.S. Fish and Wildlife Service	Management: Planning	Internal Technical Assistance	Section 7, 10.
California red-legged frog (<i>Rana draytonii</i>)	1	5	Work with county planners and local water districts to minimize effects of urban and suburban development by creating regional plans or habitat conservation plans	Ongoing Current	FY 2000 - FY 2004		City of American Canyon, California, California Department of Water Resources, Marin Municipal Water District, Water agencies, State of California, El Dorado County, California, Santa Barbara County, California, Santa Barbara County Water Agency, Other local governments and water districts, U.S. Fish and Wildlife Service	Management: Planning	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	1	6.1	Emphasize connectivity of affected habitat areas or populations by analyzing impacts and developing mitigation recommendations at the metapopulation and regional level	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	1	6.2	Design mitigation plans to enhance the viability of an entire metapopulation	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Planning	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	1	6.3	Analyze project impacts by considering the variable breeding status of frogs in response to varying weather conditions	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Research: Propagation	Labor type not yet selected	

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California red-legged frog (Rana draytonii)	1	6.4	Implement off-site mitigation when on-site conditions are not likely to be beneficial for the frog	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Land Use	Labor type not yet selected	
California red-legged frog (Rana draytonii)	1	6.5	Include management and monitoring plans for mitigation measures that rely on habitat construction, enhancement or preservation	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: Planning	Labor type not yet selected	
California red-legged frog (Rana draytonii)	2	6.6	Analyze past and future mitigation measures against clearly defined success criteria to determine effectiveness	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Management: General	Labor type not yet selected	
California red-legged frog (Rana draytonii)	2	6.7	Establish and maintain a database that tracks the amount of incidental take authorized and the effectiveness of mitigation measures	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Other: Administration	Labor type not yet selected	
California red-legged frog (Rana draytonii)	2	6.8	Summarize extent of incidental take previously authorized	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service	Other: Administration	Internal Technical Assistance	
California red-legged frog (Rana draytonii)	2	6.9	Cease the use of frog barriers as a mitigation measure	Not Started			Multiple public land agencies	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	CBD
California red-legged frog (Rana draytonii)	1	7	Develop and implement guidelines for improving water quality within the range of the California red-legged frog	Ongoing Current	FY 2000 - FY 2004		California Department of Water Resources, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Other: Information and Education	Contract	Through State Water Resources
California red-legged frog (Rana draytonii)	1	8	Implement air quality standards where poor quality is contributing to degraded conditions	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Other: Information and Education	Internal Technical Assistance	Through State Water Resources

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
California red-legged frog (<i>Rana draytonii</i>)	1	9.1	Refine guidelines to minimize the spread of disease and parasites	Ongoing Current	FY 2000 - FY 2004		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service	Management: Disease Control	Internal Technical Assistance	
California red-legged frog (<i>Rana draytonii</i>)	1	9.2	Minimize chances of spread of disease when conducting field surveys and research	Ongoing Current	FY 2000 - FY 2004		Multiple public land agencies	Management: Disease Control	Internal Technical Assistance	